

FCC PART 15B

TEST REPORT

For

Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129, P.R.C

FCC ID: QISE5776S-420

Report Type: Original Report	Product Type: Mobile WIFI
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Report Number:	R2DG140620002-00C
Report Date:	2014-07-23
Reviewed By:	Jerry Zhang EMC Manager
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Huawei Technologies Co., Ltd.*'s product, model number: *E5776s-420*(FCC ID: *QISE5776S-420*) (the "EUT") in this report was a *Mobile WIFI*, which was measured approximately: 10.48 cm (L) x 6.60 cm (W) x 1.55 cm (H), rated input voltage: DC 3.7V from Li-Polymer battery or DC 5.0V from adapter.

Adapter information:

Model: HW-050200U3W

Input: AC 100-240V, 50/60Hz, 0.5A Max

Output: DC 5.0V, 2A

** All measurement and test data in this report was gathered from production sample serial number: 140620002 (Assigned by BACL, Dongguan). The EUT was received on 2014-06-20*

Objective

This report is prepared on behalf of *Huawei Technologies Co., Ltd.* in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 90 PCB submissions with FCC ID: *QISE5776S-420*.

FCC Part 15C DTS submissions with FCC ID: *QISE5776S-420*.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

Mode Description	Test Software
Charging	N/A
Downloading	winthrax.exe

Equipment Modifications

No equipment modifications.

Support Equipment List and Details

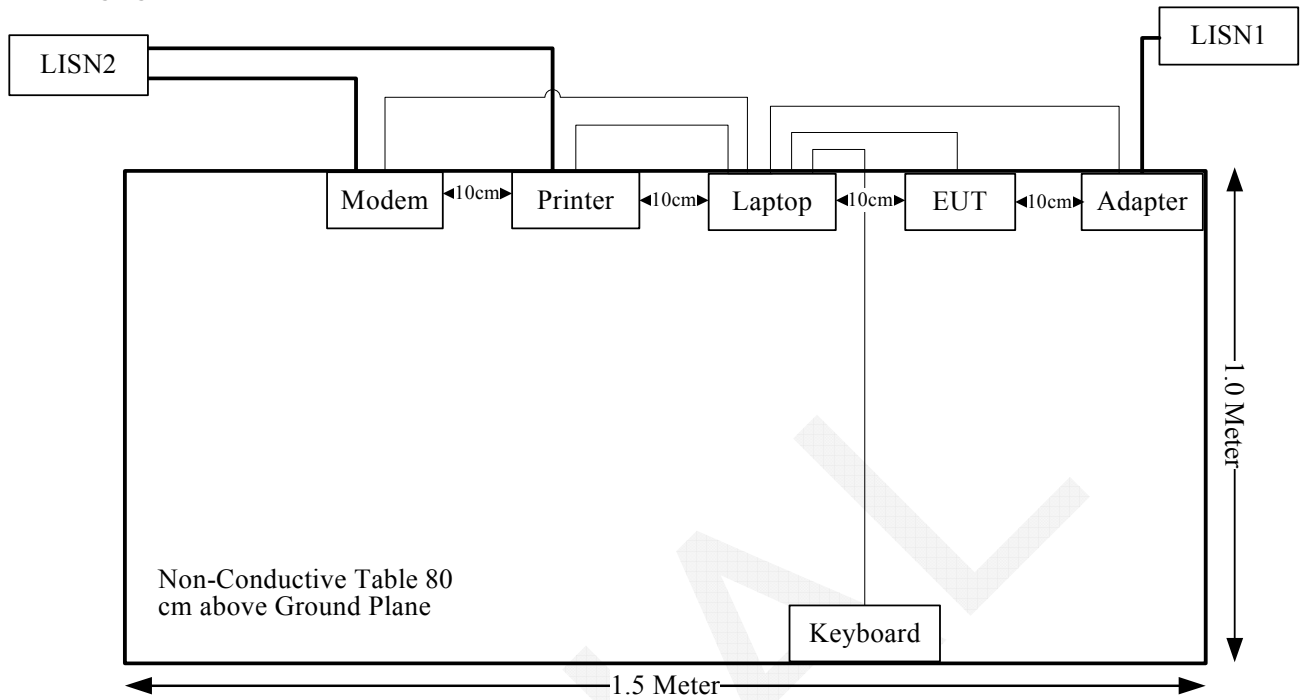
Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	QDS-BRCM1017
HP	Printer	C3941A	JPTVOB2337
DELL	Keyboard	SK-8115	CN-0J4628-71616-52I-0YMU
SAST	Modem	AEM-2100	090200213

External Cable

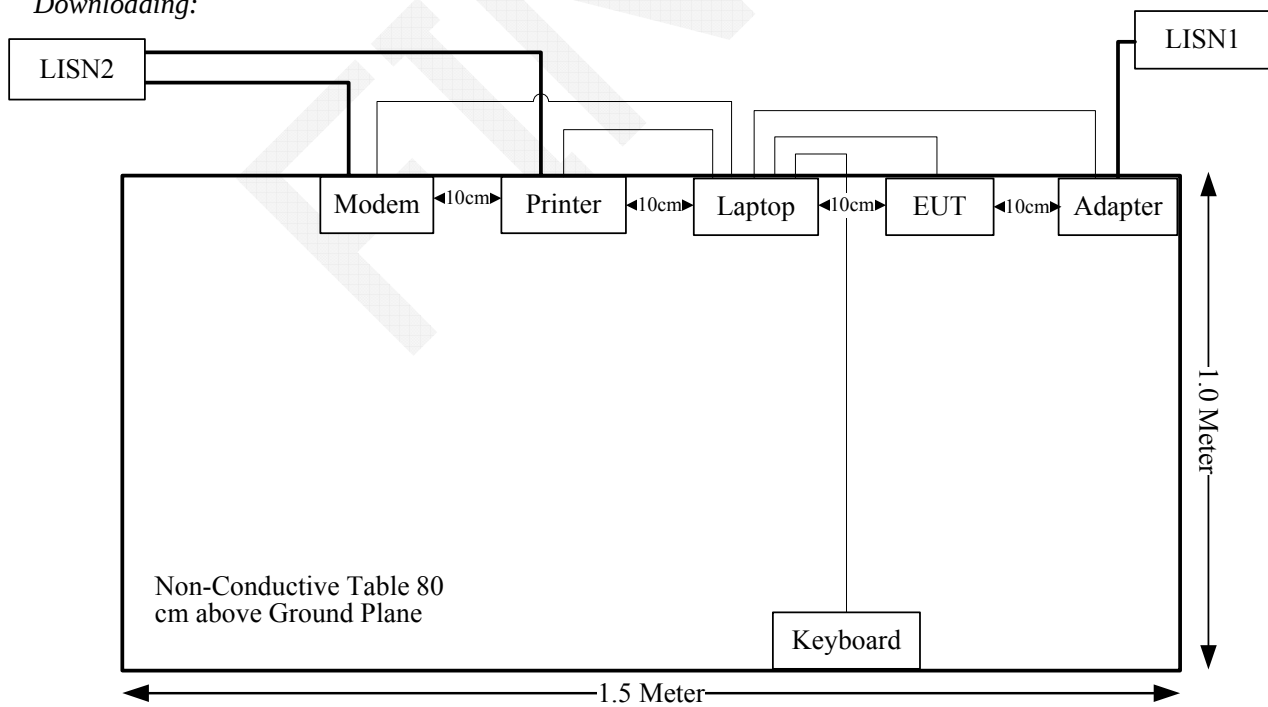
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	No	1.5	USB Port of Laptop	Keyboard
USB Cable	Yes	No	1.2	USB Port of Laptop	EUT

Block Diagram of Test Setup

Charging:



Downloading:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

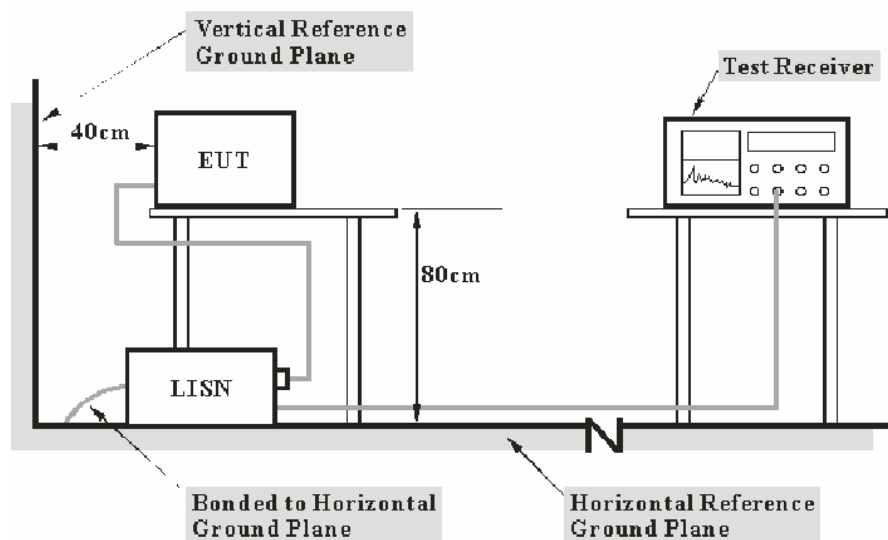
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-20
R&S	L.I.S.N	ESH3-Z5	843331/015	2013-09-25	2014-09-25
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-01-22	2015-01-22
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_c : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

7.0 dB at 0.319773 MHz in the **Neutral** conducted mode for downloading

Test Data

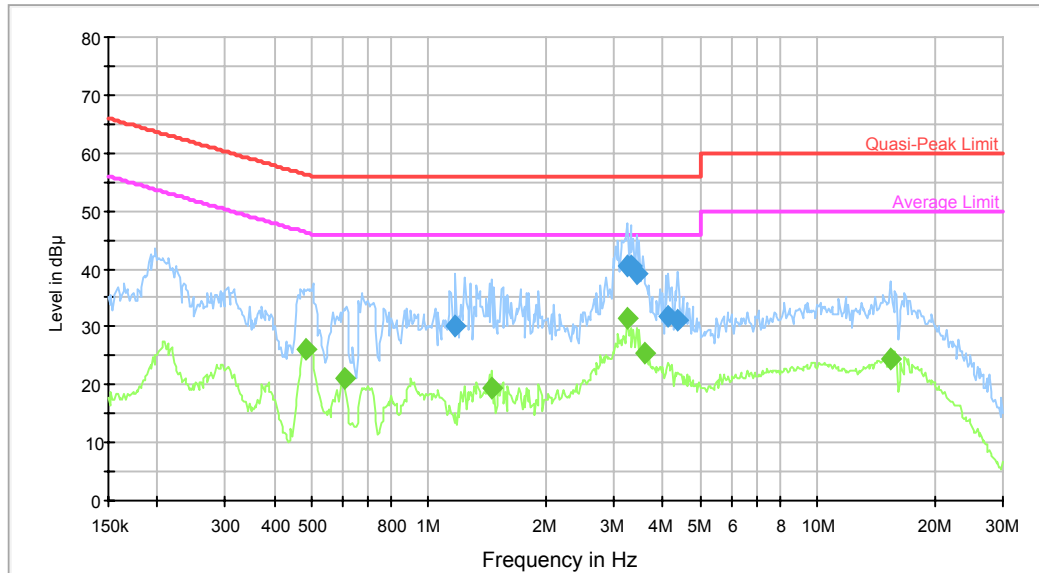
Environmental Conditions

Temperature:	28.9 °C
Relative Humidity:	50 %
ATM Pressure:	100.1 kPa

The testing was performed by Allen Qiao on 2014-07-17.

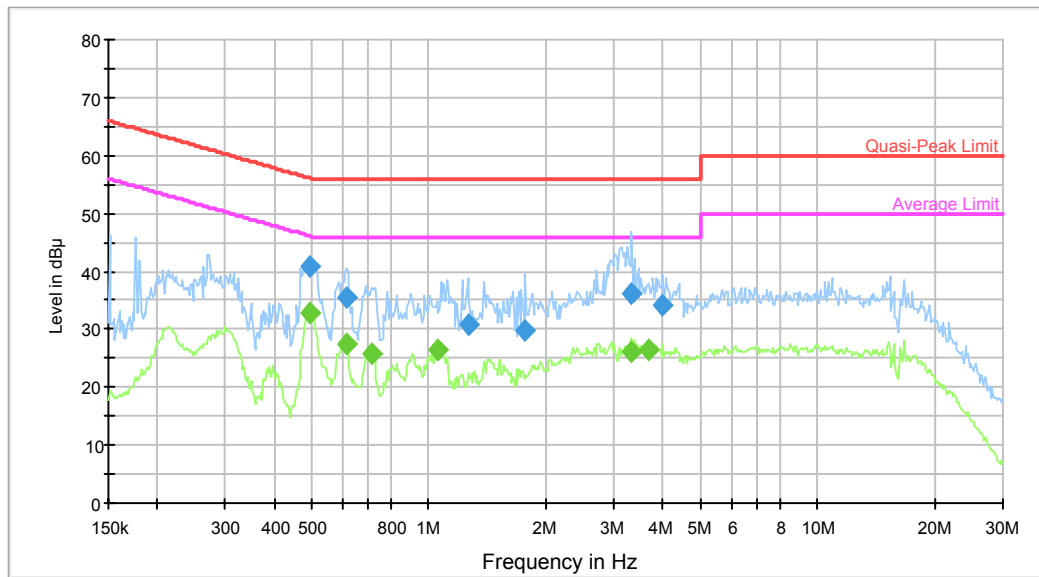
Test mode: Charging

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
1.171949	30.1	9.000	L1	10.4	25.9	56.0	Compliance
3.249802	40.6	9.000	L1	10.7	15.4	56.0	Compliance
3.302007	40.6	9.000	L1	10.7	15.4	56.0	Compliance
3.436218	39.0	9.000	L1	10.7	17.0	56.0	Compliance
4.127365	31.9	9.000	L1	10.7	24.1	56.0	Compliance
4.364119	31.2	9.000	L1	10.7	24.8	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.483938	26.0	9.000	L1	10.4	20.3	46.3	Compliance
0.604902	20.9	9.000	L1	10.5	25.1	46.0	Compliance
1.453260	19.5	9.000	L1	10.4	26.5	46.0	Compliance
3.249802	31.5	9.000	L1	10.7	14.5	46.0	Compliance
3.604490	25.5	9.000	L1	10.7	20.5	46.0	Compliance
15.492490	24.3	9.000	L1	10.7	25.7	50.0	Compliance

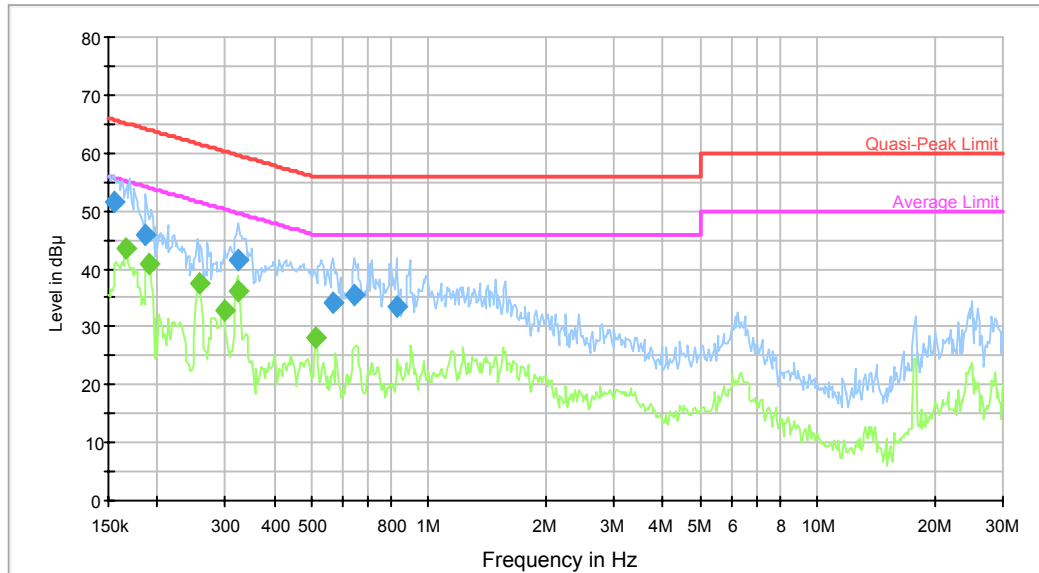
AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.491712	40.7	9.000	N	10.4	15.5	56.1	Compliance
0.614619	35.5	9.000	N	10.5	20.5	56.0	Compliance
1.259081	30.7	9.000	N	10.5	25.3	56.0	Compliance
1.773603	29.9	9.000	N	10.5	26.1	56.0	Compliance
3.328423	36.2	9.000	N	10.7	19.8	56.0	Compliance
3.997889	34.1	9.000	N	10.8	21.9	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.495646	32.9	9.000	N	10.4	13.2	46.1	Compliance
0.614619	27.6	9.000	N	10.5	18.4	46.0	Compliance
0.715082	25.6	9.000	N	10.6	20.4	46.0	Compliance
1.048242	26.6	9.000	N	10.5	19.4	46.0	Compliance
3.328423	26.1	9.000	N	10.7	19.9	46.0	Compliance
3.691692	26.3	9.000	N	10.8	19.7	46.0	Compliance

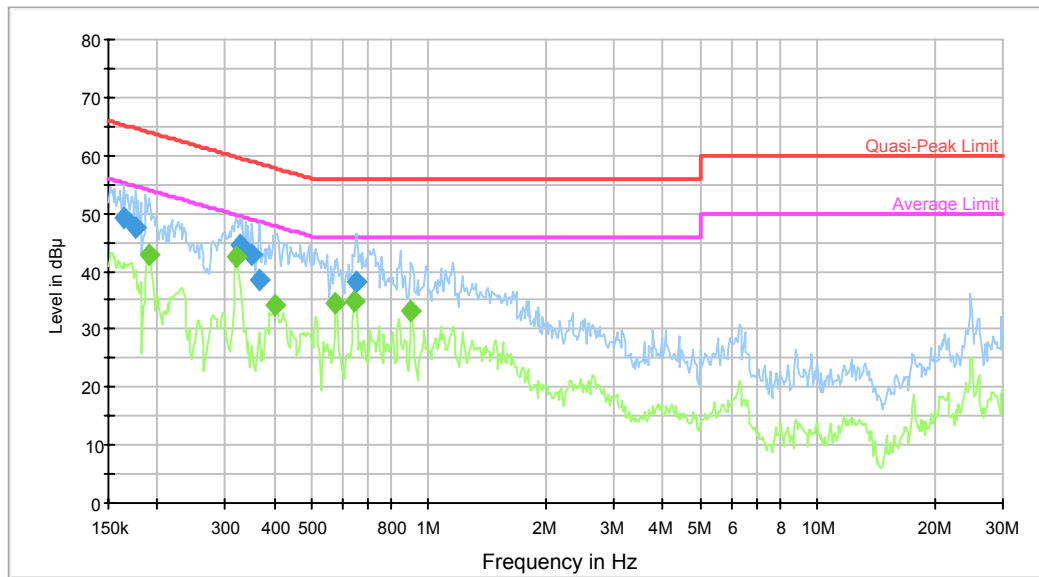
Test mode: Downloading

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.154858	51.7	9.000	L1	10.1	14.0	65.7	Compliance
0.187494	45.8	9.000	L1	10.6	18.4	64.1	Compliance
0.324910	41.4	9.000	L1	10.7	18.2	59.6	Compliance
0.567545	34.3	9.000	L1	10.4	21.7	56.0	Compliance
0.644717	35.6	9.000	L1	10.6	20.4	56.0	Compliance
0.825364	33.4	9.000	L1	10.5	22.6	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.166371	43.4	9.000	L1	10.2	11.7	55.1	Compliance
0.190505	40.7	9.000	L1	10.6	13.3	54.0	Compliance
0.255827	37.5	9.000	L1	10.7	14.1	51.6	Compliance
0.297644	32.7	9.000	L1	10.7	17.6	50.3	Compliance
0.322331	36.1	9.000	L1	10.7	13.5	49.6	Compliance
0.511698	28.0	9.000	L1	10.4	18.0	46.0	Compliance

AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.163741	49.1	9.000	N	10.5	16.2	65.3	Compliance
0.175915	47.6	9.000	N	10.8	17.1	64.7	Compliance
0.327509	44.6	9.000	N	11.1	15.0	59.5	Compliance
0.351859	42.8	9.000	N	11.0	16.1	58.9	Compliance
0.366160	38.5	9.000	N	11.0	20.1	58.6	Compliance
0.649874	38.1	9.000	N	10.6	17.9	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.190505	42.7	9.000	N	11.1	11.3	54.0	Compliance
0.319773	42.7	9.000	N	11.1	7.0	49.7	Compliance
0.402900	34.3	9.000	N	10.8	13.5	47.8	Compliance
0.576662	34.6	9.000	N	10.4	11.4	46.0	Compliance
0.644717	34.7	9.000	N	10.6	11.3	46.0	Compliance
0.900972	33.1	9.000	N	10.6	12.9	46.0	Compliance

FCC §15.109 - RADIATED EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB

200M~1GHz: 6.2 dB

1G~6GHz: 4.45 dB

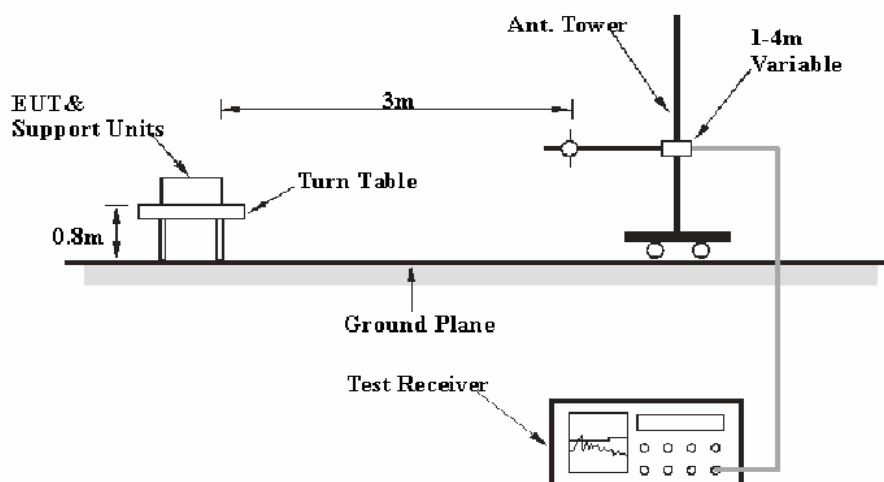
6G~18GHz: 5.23 dB

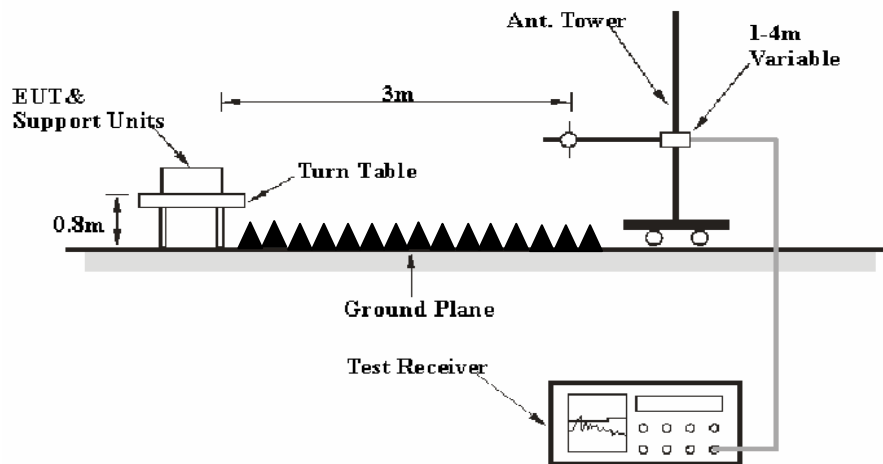
Table 2 – Values of U_{cispr}

Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15.109, Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

According to FCC 15.33 requirements, the system was measured from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	/	Ave.

Test Procedure

For the radiated emissions test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in Quasi-peak detection mode for 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-1	2011-09-06	2014-09-05
HP	Amplifier	8447E	2434A02181	2013-09-06	2014-09-06
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

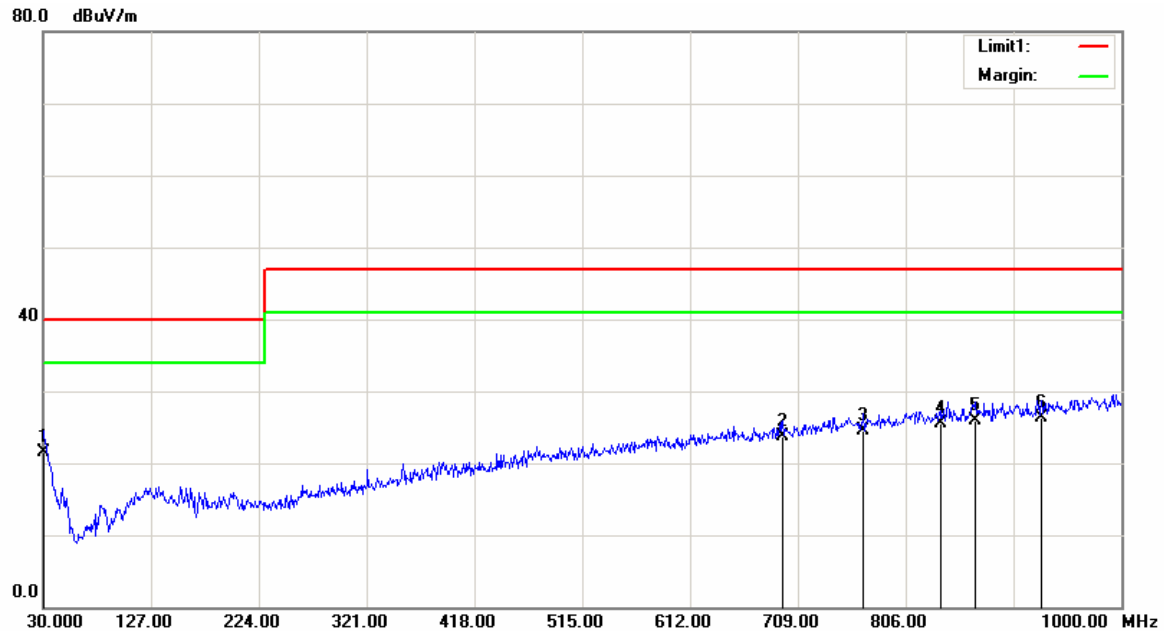
5.70 dB at 225.9400 MHz in the **Horizontal** polarization for downloading

Test Data

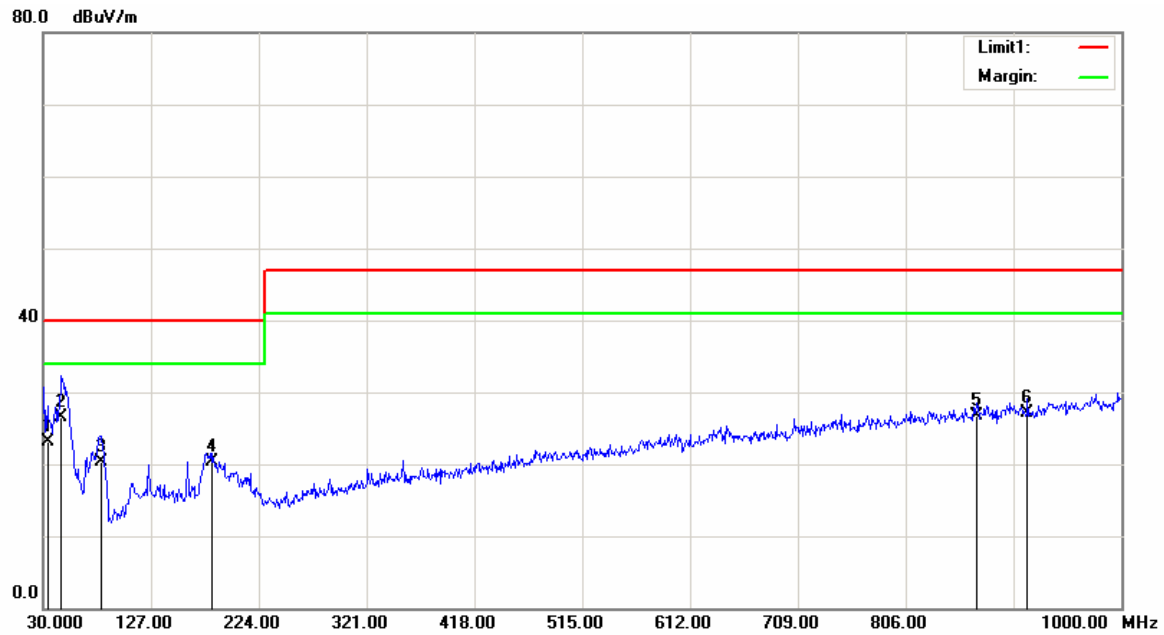
Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	61 %
ATM Pressure:	100.1 kPa

The testing was performed by Allen Qiao on 2014-07-17.

1) Below 1GHz:*Test mode: Charging***Horizontal:**

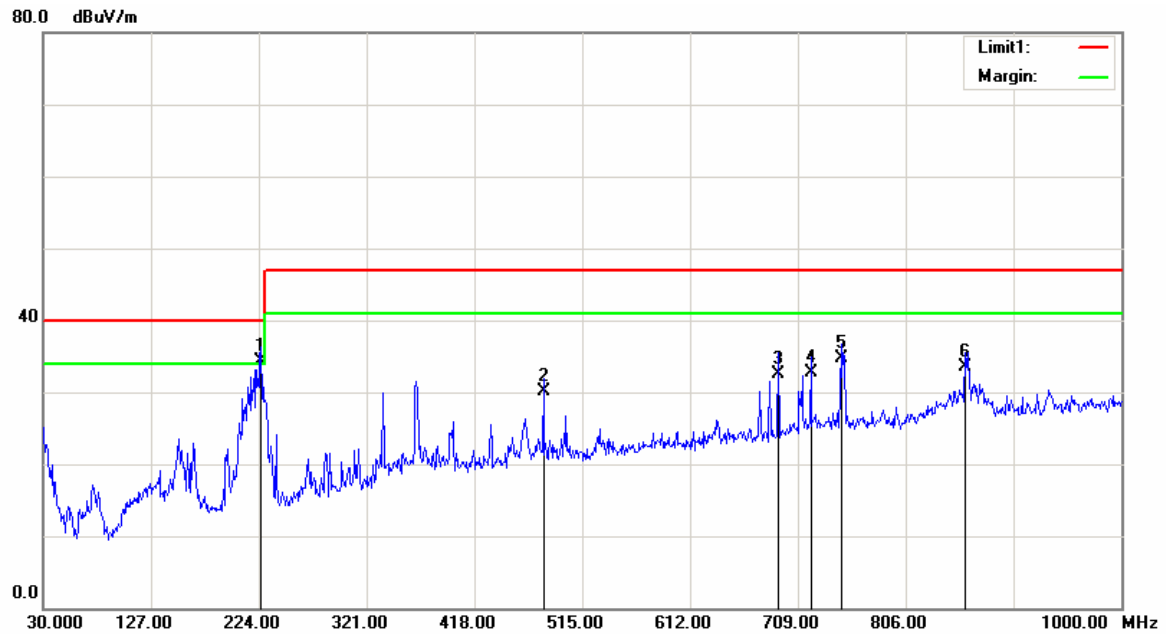
Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	20.05	QP	1.45	21.50	40.00	18.50
695.4200	22.69	QP	1.11	23.80	47.00	23.20
768.1700	22.08	QP	2.42	24.50	47.00	22.50
837.0400	22.17	QP	3.33	25.50	47.00	21.50
868.0800	21.93	QP	3.97	25.90	47.00	21.10
928.2200	21.94	QP	4.36	26.30	47.00	20.70

Vertical:

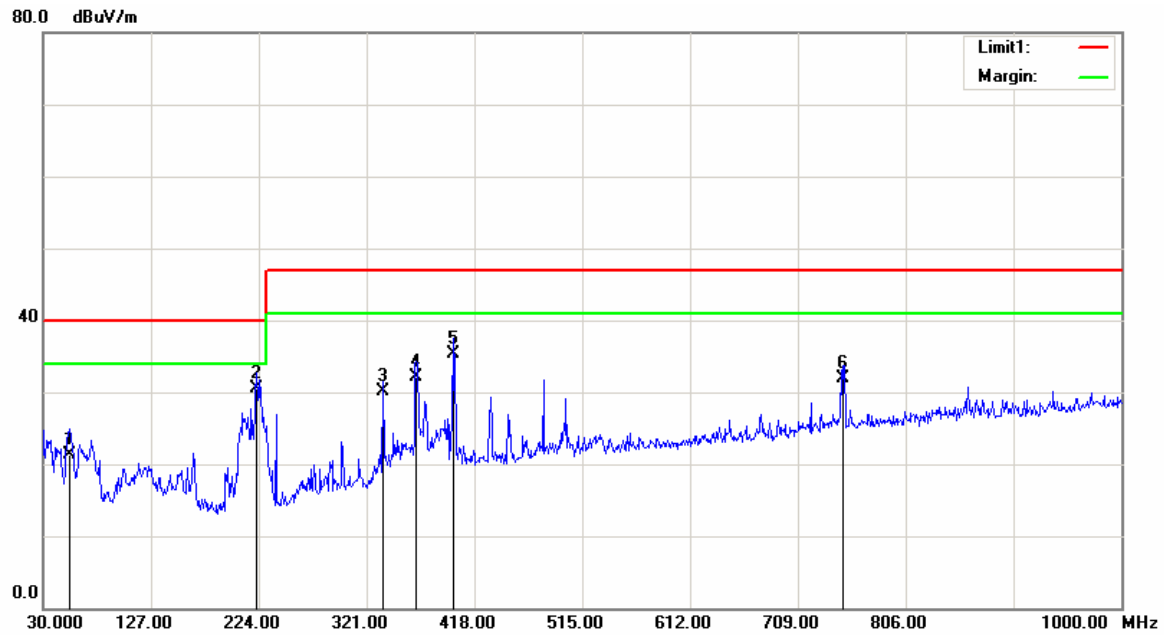
Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
33.8800	24.47	QP	-1.37	23.10	40.00	16.90
46.4900	36.88	QP	-10.38	26.50	40.00	13.50
82.3800	32.91	QP	-12.51	20.40	40.00	19.60
182.2900	28.87	QP	-8.57	20.30	40.00	19.70
870.0200	22.73	QP	4.07	26.80	47.00	20.20
915.6100	22.86	QP	4.24	27.10	47.00	19.90

Test mode: Downloading

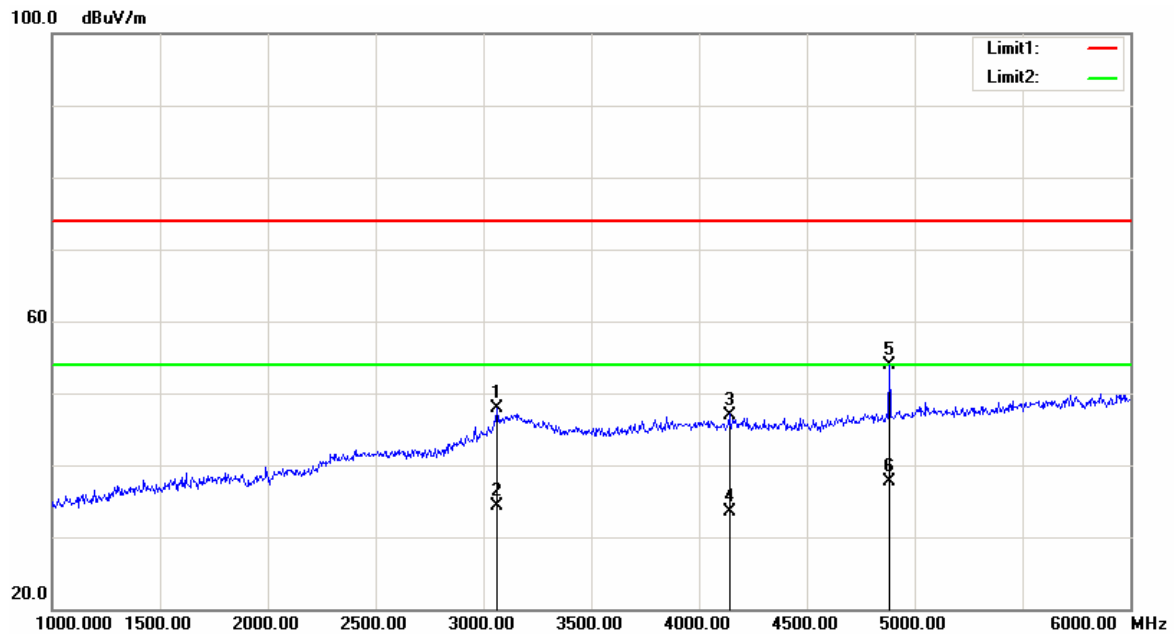
Horizontal:



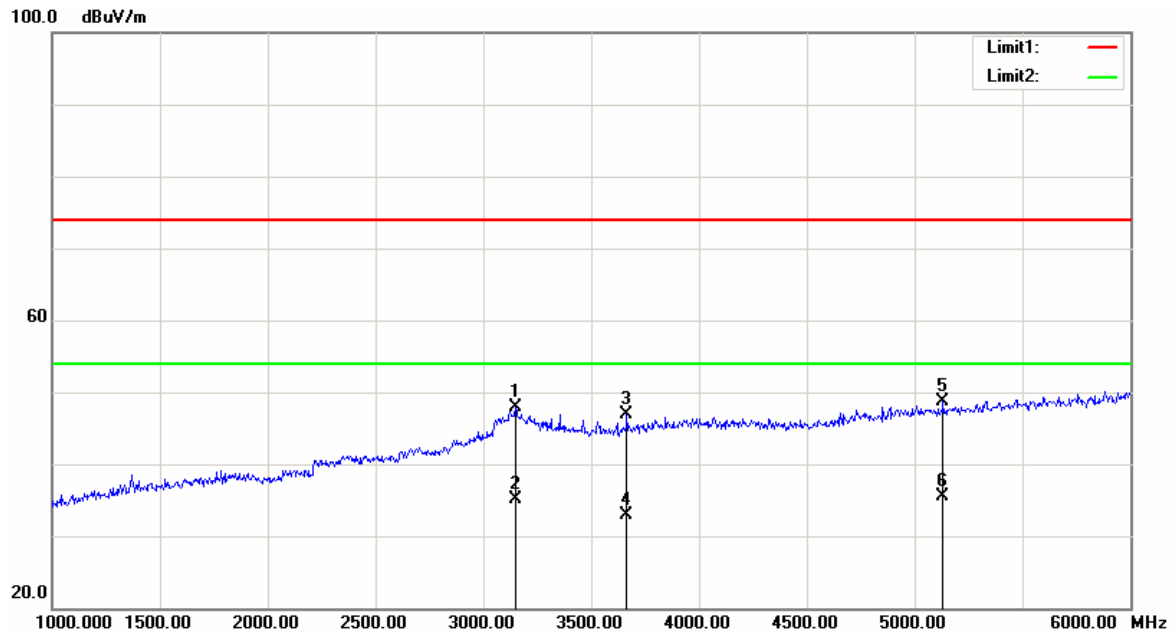
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
225.9400	42.34	QP	-8.04	34.30	40.00	5.70
480.0800	31.55	QP	-1.45	30.10	47.00	16.90
691.5400	31.48	QP	1.02	32.50	47.00	14.50
720.6400	31.32	QP	1.38	32.70	47.00	14.30
747.8000	32.69	QP	2.11	34.80	47.00	12.20
859.3500	30.30	QP	3.30	33.60	47.00	13.40

Vertical:

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
54.2500	34.10	QP	-12.80	21.30	40.00	18.70
222.0600	38.65	QP	-8.15	30.50	40.00	9.50
335.5500	35.09	QP	-4.89	30.20	47.00	16.80
365.6200	35.93	QP	-3.83	32.10	47.00	14.90
398.6000	38.83	QP	-3.43	35.40	47.00	11.60
749.7400	29.79	QP	2.11	31.90	47.00	15.10

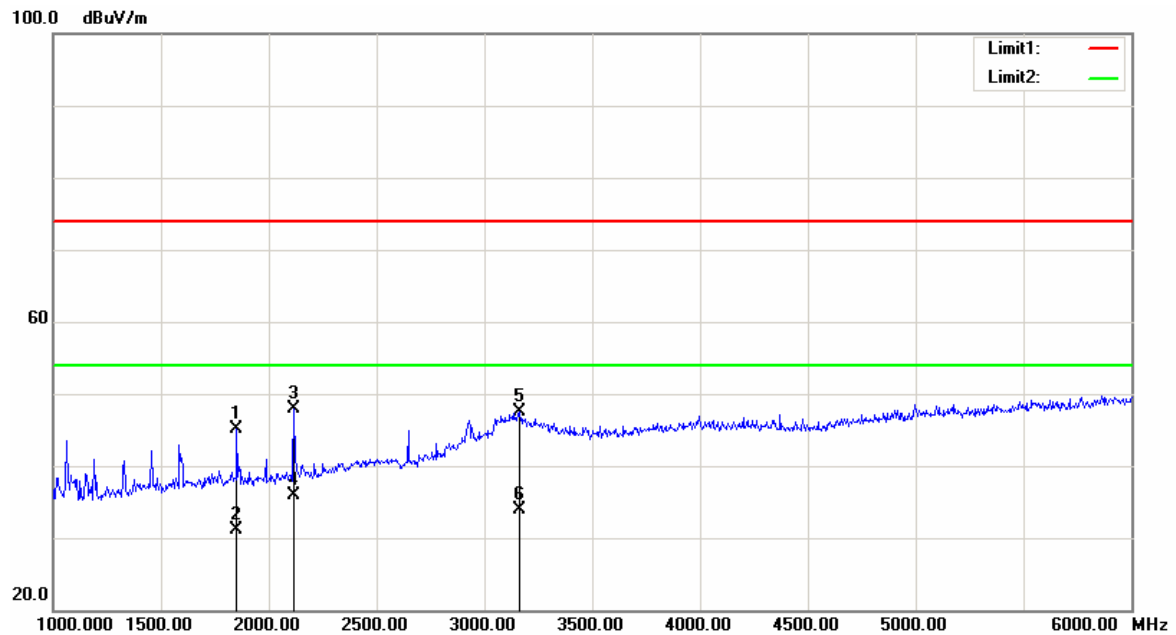
2) Above 1GHz:*Test mode: Charging***Horizontal:**

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
3064.128	40.63	peak	7.19	47.82	74.00	26.18
3064.128	27.19	AVG	7.19	34.38	54.00	19.62
4141.283	39.22	peak	7.78	47.00	74.00	27.00
4141.283	25.81	AVG	7.78	33.59	54.00	20.41
4882.766	44.24	peak	9.62	53.86	74.00	20.14
4882.766	28.11	AVG	9.62	37.73	54.00	16.27

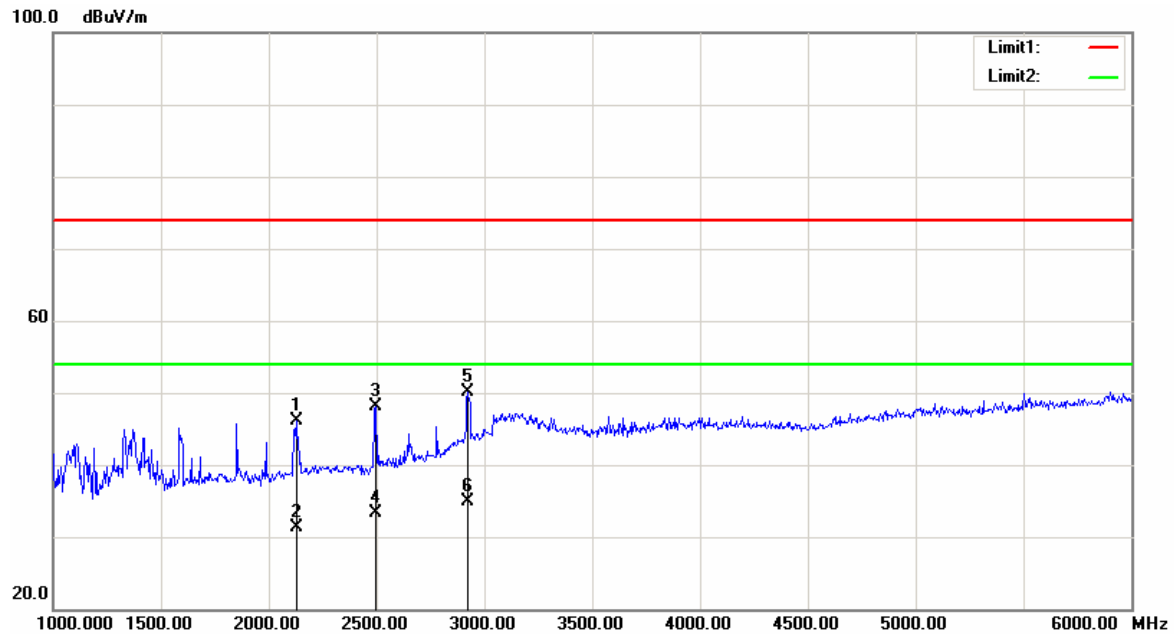
Vertical:

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
3149.299	40.05	peak	7.87	47.92	74.00	26.08
3149.299	27.14	AVG	7.87	35.01	54.00	18.99
3665.331	40.11	peak	6.71	46.82	74.00	27.18
3665.331	26.25	AVG	6.71	32.96	54.00	21.04
5133.267	38.56	peak	10.09	48.65	74.00	25.35
5133.267	25.40	AVG	10.09	35.49	54.00	18.51

Test mode: Downloading

Horizontal:

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1851.703	44.10	peak	1.01	45.11	74.00	28.89
1851.703	30.19	AVG	1.01	31.20	54.00	22.80
2117.235	46.33	peak	1.67	48.00	74.00	26.00
2117.235	34.31	AVG	1.67	35.98	54.00	18.02
3164.329	39.85	peak	7.60	47.45	74.00	26.55
3164.329	26.37	peak	7.60	33.97	74.00	40.03

Vertical:

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2127.255	44.25	peak	1.76	46.01	74.00	27.99
2127.255	29.45	AVG	1.76	31.21	54.00	22.79
2497.996	44.87	peak	3.16	48.03	74.00	25.97
2497.996	30.20	AVG	3.16	33.36	54.00	20.64
2923.848	43.94	peak	6.26	50.20	74.00	23.80
2923.848	28.61	peak	6.26	34.87	74.00	39.13

*****END OF REPORT*****